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## NOTICE OF ALLOWANCE AND FEE(S) DUE

5179 7590 03/06/2009

PEACOCK MYERS, P.C. 201 THIRD STREET, N.W. SUITE 1340 ALBUOUEROUE, NM 87102 EXAMINER

BARTON, JEFFREY THOMAS

ART UNIT PAPER NUMBER

1705

DATE MAILED: 03/06/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFRMATION NO. 10/796,310 03/08/2004 David S. Melton 31592-UT-1001 2088

TITLE OF INVENTION: TRACKING SOLAR SHELIER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	06/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ig the Patent, advance on herwise in Block 1, by (a	ders and notification of r specifying a new corres	naintenance fees will pondence address; ar	be mailed to the current ad/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
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ALBUQUERQU	JE, NM 87102					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,310 TITLE OF INVENTION	03/08/2004 F: TRACKING SOLAR S	HELTER	David S. Melton		31592-UT-1001	2088
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	06/08/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS			
BARTON, JEFF	REY THOMAS	1795	136-243000			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.II. Comp	nge of Correspondence  'Indication form ed. Use of a Customer A TO BE PRINTED ON 2	<ol> <li>For printing on the p         (I) the names of up to or agents OR, alternative         (2) the name of a single registered attorney or a 2 registered patent atto listed, no name will be         FITE PATENT (print or type data will appear on the p         Γ a substitute for filing an         (B) RESIDENCE: (CITY</li> </ol>	3 registered patent a rely, e firm (having as a m gent) and the names meys or agents. If no printed.	ember a 2	ocument has been filed for
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4a. The following fee(s)  Issue Fee Publication Fee (N	vo small entity discount p		A check is enclosed.  Payment by credit car  The Director is hereby overpayment, to Depo	d. Form PTO-2038 is	attached.	shown above)  ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	is. See 37 CFR 1.27.			ENTITY status. See 37 C	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	rired) will not be accepted tes Patent and Trademark	from anyone other than t Office.	he applicant; a registe	red attorney or agent; or the	ne assignee or other party in
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DATE MAILED: 03/06/2009

APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.	
10/796,310	03/08/2004	David S. Melton	31592-UT-1001 2088		
5179 75	590 03/06/2009		EXAMINER		
PEACOCK MYI	ERS, P.C.	BARTON, JEFFREY THOMAS			
201 THIRD STREET, N.W.			ART UNIT	PAPER NUMBER	
SUITE 1340			1795		
ALBUOUEROUE	. NM 8/102	DATE MARKED 02/06/2000			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 863 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 863 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

# Application No. Applicant(s) 10/796 310 MELTON ET AL. Notice of Allowability Examiner Art Unit Jeffrey T. Barton 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the amendment filed on 1 December 2008. The allowed claim(s) is/are 1-5,7,8,10,11 and 13-29. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) $\square$ All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

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## EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes
and/or additions be unacceptable to applicant, an amendment may be filed as provided
by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be
submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Deborah Peacock and Diane Albert on 25 February 2009.

The application has been amended as follows:

## In the claims:

- a. In claim 1 at line 3, please insert the word --each-- before the words "said support pillar".
- In claim 1 at line 5, please delete the word "top" after the word "second".
- In claim 1 at line 9, please delete "said end top" and insert --said second end-- after the words "disposed at".
- In claim 1 at line 10, please insert a comma after the word "pillars".
- e. In claim 1 at lines 14-15, please delete the phrase "at said second end of said horizontal array support beam at said top end of said support pillar" and insert the phrase --at said second end of at least one of said support pillars-after the word "disposed".
- f. In claim 1 at line 17, please delete the word "an" and insert --a tracking-before the word "axis".

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g. In claim 1 at line 24, please insert the word --tracking -- before the word "axis".

- h. Please delete the redundant number "4." at the beginning of the claim.
- i. In claim 8 at line 2, please insert the word --said-- before the word "solar".
- j. In claim 8 at line 3, please insert the word --said-- before the word "support".
- k. Please replace the text of claim 11 with the following:
- --The assembly of claim 7 comprising at least two said solar power arrays and at least two said support structures, wherein each end of each said horizontal support beam is connected to said drive assembly or to said rotor bearing assembly so that said at least two support structures are linked.--
- In claim 19 at line 2, please insert the word --said-- before the word "solar".
- m. In claim 20 at line 1, please insert the word --tracking -- before the word "axis".
- 2. The following is an examiner's statement of reasons for allowance:

The claims are deemed allowable due to the limitation to a rotor bearing assembly having the detailed structure recited in lines 12-15 of claim 1. None of the prior art of record teaches or fairly suggests a solar tracking assembly having such structure. The closest prior art is considered to be represented by Prideaux et al (US 4,429,178) and the DOE/ET/23053-1 document (Hereby made of record). The support

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pillars of the arrays taught in Prideaux et al (e.g. Figure 3) and DOE/ET/23053-1 (e.g. Section 3.2.1 and Appendix D, Drawings 7473-112, 7473-113, 7473-120, 7473-122, and 7473-124) lack any teaching or suggestion of the instant rotor bearing assembly coupler tube that is rotatably disposed in both a sleeve bearing and within a coupler torque tube as instantly claimed. No fair teaching or suggestion was found in the prior art of record that would have led one having ordinary skill in the art at the time the invention was made to modify the structures of these references to meet these limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Jeffrey T. Barton whose telephone number is (571)272-1307. The examiner can normally be reached on M-F 9:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nam X Nguyen/ Supervisory Patent Examiner, Art Unit 1753

/JTB/ Examiner 25 February 2009